



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

Application Number	10/698,801
Filing Date	October 31, 2003
First Named Inventor	Alireza K. Ziarani
Art Unit	2857
Examiner Name	Not Yet Assigned <i>Assured</i>

Attorney Docket Number 29888/39521

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
POT	A1	4,197,524-A1	04-08-1980	Salem	
PSY	A2	6,602,202-B2	08-05-2003	John et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
POT	B1	EP 0 803 623-A1	10-29-1997	Hülsbeck & Fürst GmbH & Co.		
	B2	WO 9 839 539-A1	09-11-1998	Goldman		
	B3	CA 2 300 021-A1	09-05-2000	LaRoche		
	B4	WO 0 159 238-A2	08-16-2001	Goldman		
	B5	CA 2 346 243-A1	11-04-2002	Karimi Ziarani		
	B6	CA 2 349 041-A1	11-28-2002	Karimi Ziarani		
	B7	WO 02/097656-A2	12-05-2002	Karimi Ziarani		
↓	B8	CA 2 359 445-A1	04-03-2003	Karimi Ziarani		
PSY	B9	CA 2 385 343-A1	11-22-2003	Karimi Ziarani et al.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk ("\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Code that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PSY	C1	KARIMI-GHARTEMANI, ET AL. "Stability of a Nonlinear Adaptive System for Filtering and Parameter Estimation" 2002 MTNS Problem Book Open Problems on the Mathematical Theory of Systems, pp. 53-55, August 12-16, 2002.	
	C2	KARIMI-GHARTEMANI, ET AL. "Periodic Orbit Analysis of Two Dynamical Systems for Electrical Engineering Applications" Journal of Engineering Mathematics 45: 135-154, 2003.	
	C3	KARIMI-GHARTEMANI, ET AL. "Performance Characterization of a Non-linear System as Both an Adaptive Notch Filter and a Phase-locked Loop" International Journal of Adaptive Control and Signal Processing 18:23-53, January 5, 2004.	
	C4	ZIARIANI, ET AL. "SNR Improvement of Emat Signals Using Adaptive Filtering" 10th International Symposium on Electromagnetic Fields in Electrical Engineering, Cracow, Poland, September 20-22, 2001.	
	C5	ZIARIANI, ET AL. "Preliminary Results on Interface Elimination from Lightning Recordings," International Workshop on Electromagnetic Radiation from Lightning to Tall Structures, pp. 1-2, 2001.	
↓	C6	ZIARIANI, ET AL. "A Method of Elimination of Interferences of Quasi-periodic Nature," MWSCAS-2001 Vol. 1 of 2, pp. 363 - 366.	
PSY	C7	ZIARIANI, ET AL. "Galerkin's Method and the Variational Procedure," IEEE Transactions on Magnetics, Vol. 38, No. 1, pp. 190-199, January, 2002.	

Examiner Signature

Date Considered

1/27/05

10/6 98801  
2857

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/698,801
				Filing Date	October 31, 2003
				First Named Inventor	Alireza K. Ziarani
				Art Unit	2857
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	29888/39521

→

P01	C8	ZIARIANI, ET AL "A Nonlinear Adaptive Method of Elimination of Power Line Interference in ECG Signals", <i>IEEE Transactions on Biomedical Engineering</i> , Vol. 49, No. 6, pp. 540-547, June, 2002.
P01	C9	ZIARIANI, ET AL "Adaptive Signal Quality Enhancement of Emat Signals," <i>Electromagnetic Fields in Electrical Engineering</i> , IOS Press, pp 543 - 548, 2002.
P01	C10	ZIARIANI, ET AL "A Nonlinear Method of Frequency Estimation in Noise," <i>MWSCAS-2002</i> Vol. III of III, pp. I-316 - I-319.
P01	C11	ZIARIANI, ET AL "Experimental Verification of a Novel Method of Extraction of Nonstationary Sinusoids," <i>MWSCAS-2002</i> Vol. I of III, pp. I-455 - 1458.
P01	C12	ZIARIANI, ET AL "A Novel Time-Domain Method of Analysis of Pulsed Sine Wave Signal," <i>IEEE Transactions on Instrumentation and Measurement</i> , Vol. 52, No. 3, pp. 809-814, June, 2003.
Not Enclosed	C13	ZIARIANI, ET AL "A Method of Extraction of Nonstationary Sinusoids", pp. 1-44, March 28, 2004 (draft publication).
P01	C14	ZIARIANI, ET AL "A Novel Method of Estimation of DPOAE Signals," <i>IEEE Transactions on Biomedical Engineering</i> , Vo. 51, No. 5, pp. 864-868, May, 2004.
P01	C15	ZIARIANI, ET AL "An Adaptive Noise Reduction Technique," <i>IEEE 2001</i> , pp. 251-254
P01	C16	KARIMI-GHARTEMANI ET AL "A Nonlinear Time-Frequency Analysis Method," <i>IEEE Transactions on Signal Processing</i> , Vol. 52, No. 6, June 2004.
P01	C17	International Search Report, PCT/CA02/00069, April 9, 2002

Examiner Signature	<i>[Signature]</i>	Date Considered	4/27/05
--------------------	--------------------	-----------------	---------